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7	Application No.	Applicant(s)	
Nation of Alleman bility	10/017,032	SHIN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Keith Hendricks	1761	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not included	
1. This communication is responsive to			
2. The allowed claim(s) is/are <u>1-9,11,12,14 and 15.</u>			
 3. ☐ The drawings filed on are accepted by the Examiner. 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). 			
a) ⊠ All b) ☐ Some* c) ☐ None of the:	der 35 U.S.C. § 119(a)-(d) or (f).		
 ☐ Certified copies of the priority documents have been received. 			
2. ☐ Certified copies of the priority documents have been received in Application No			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
 Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specifical 	der 35 U.S.C. § 119(e) (to a provision or in an Application Data Sheet	onal application) since a specific	
(a) The translation of the foreign language provisional ap		67 GFR 1.76.	
6. Acknowledgment is made of a claim for domestic priority un	der 35 U.S.C. §§ 120 and/or 121 sir	ice a specific reference was included	
in the first sentence of the specification or in an Application	Data Sheet. 37 CFR 1.78.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of t below. Failure to timely comply will result in ABANDONMENT of the	this communication to file a reply control application. THIS THREE-MON	mplying with the requirements noted TH PERIOD IS NOT EXTENDABLE	
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
 CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No 			
(b) 🔲 including changes required by the proposed drawing correction filed, which has been approved by the Examiner.			
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).			
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TH 	it of BIOLOGICAL MATERIAL m E DEPOSIT OF BIOLOGICAL MAT	ust be submitted. Note the ERIAL.	
Attachment(s)			
1⊠ Notice of References Cited (PTO-892)	5 Notice of Informal Pate	ent Application (PTO-152)	
2☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6⊡ Interview Summary (P	TO-413), Paper No	
3 Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No.	7⊠ Examiner's Amendme	nt/Comment	
4☐ Examiner's Comment Regarding Requirement for Deposit	8⊠ Examiner's Statement	of Reasons for Allowance	
of Biological Material	9☐ Other .		
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Application/Control Number: 10/017,032

Art Unit: 1761

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter Martine on December 8, 2003.

Please amend claim 1 to read as follows:

1. An enriched milk with capsules, said capsule [composing] comprising;

a primary core containing hydrogenated oil in which nutrients are dispersed [therein]:

a second core layer which surrounds the primary core to prevent loss of nutrients contained in the primary core, wherein the second core layer comprises hydrogenated oil and lecithin; and

an outer layer which covers the second core layer to maintain the shape of the capsules, wherein the outer layer comprises two or more materials selected from the group consisting of gelatin, sorbitol and agar.

Please cancel claims 10 and 13.

Note: The amendments above were made to more clearly define applicant's invention, and were not necessarily made to overcome any known prior art.

The following is an examiner's statement of reasons for allowance:

As stated at pages 1-2 of the specification,

There are common milk products enriched with such nutrients as vitamins A and D, iron and DHA, but, because these additives have a bad effect on taste of milk, a large amount of such ingredients can't be added.

Art Unit: 1761

...The inventor in this invention has endeavored to solve the conventional problems as described above, and has found a way of encapsulating ingredients deficient in milk and adding them to milk, thereby preserving taste of milk and simultaneously enabling easy ingestion.

The prior art of record was known to provide milk or milk products which contained added nutrients, or which contained capsules to provide various added materials. For example, see US PAT 6,491,955, directed to a milk containing beta-D-galactosidase which was microencapsulated with fatty acid esters. US PAT 6,156,354 involves the microdispersion of vitamin E in milk, and US PAT 6,447,823 is directed to a liquid yogurt product containing lactic acid bacteria which are encapsulated with a hardened oil and a starch, whereby the specific gravity of the capsules is equal to that of the liquid yogurt to maintain the capsules in a uniformly dispersed state. While each of these references establishes and contributes to the general state of the art at the time the current invention was made, they do not teach or suggest, alone or in combination, the specifically-claimed invention. In the instant application, the use of the three layers to encapsulate nutrients within milk, each layer of which is formulated from the components as recited in claim 1, was not taught or suggested by the prior art of record. While the '823 patent cited above provided capsules in a liquid yogurt (milk product) whereby the specific gravity of the capsules is equal to that of the fermented milk product to maintain the capsules in a uniformly dispersed state, this would not anticipate the instant invention where the capsules provide a specific gravity equal to that of milk, as in claim 2, particularly due to the recited components in independent claim 1.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith Hendricks whose telephone number is (571) 272-1401. The examiner can normally be reached on M-F (8:30am-6pm); First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Milton Cano can be reached on (571) 272-1398. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

KEITH HENDRICKS PRIMARY EXAMINER